Number 3, 9 July 1991

Announcement from the Publisher *iii*

Trauma, especially of the submandibular glands, causes release of epidermal growth factor into bloodstream in mice
D. L. Hwang, S. Wang, R. C.-R. Chen and A. Lev-Ran (U.S.A.) 133

Vasoactive intestinal peptide fluctuates in human blood with a circadian rhythm
P. Cugini, P. Lucia, L. Di Palma, M. Re, G. Leone, P. Battisti, R. Canova, L. Gasbarrone and A. Cianetti (Italy) 141

A comparative study of the effects of neonatal androgenization and estrogenization on prolactin secretion in adult female rats
H. Watanobe, S. Sasaki and K. Takebe (Japan) 149

Homologous pancreastatin inhibits insulin secretion without affecting glucagon and somatostatin release in the perfused rat pancreas
E. Peiró, P. Dégano, P. Miralles, R. A. Silvestre and J. Marco (Spain) 159

Isolation and characterization of a hemoglobin-derived opioid peptide from the human pituitary gland
E.-L. Glämsta, A. Marklund, U. Hellman, C. Wernstedt, L. Terenius and F. Nyberg (Sweden) 169

Expression of preprodynorphin in human small cell lung carcinoma cell lines
T. Geijer, J. Bergh and L. Terenius (Sweden) 181

Chronic ICV infusion of neuropeptides alters lymphocyte populations in experimental rodents
L. D. Fannon and M. I. Phillips (U.S.A.) 189

Identification, characterization and release of GRP gene-associated peptides from the normal porcine and human gastro-intestinal tract
L. Bjørnskov-Bartholdy, M. Bersani and J. J. Holst (Denmark) 197

Ultrastructural localization of neuropeptide FF, a new neuropeptide in the brain and pituitary of rats
L. Kivipelto (Finland) 211

Pancreatic hormone response to neuropeptide Y (NPY) perifusion in vitro
E. C. Opara, W. M. Burch, I. L. Taylor and O. E. Akwari (U.S.A.) 225

Interactions between oxytocin, glucagon and glucose in normal and streptozotocin-induced diabetic rats
E. P. Widmaier, P. R. Shah and G. Lee (U.S.A.) 235

Motility regulating effects of galanin on smooth muscle of porcine ileum
H. Harling and A. Tøttrup (Denmark) 251

Endogenous vasoactive intestinal peptide (VIP) regulates somatostatin secretion by cultured fetal rat cerebral cortical and hypothalamic cells
M. T. De los Frailes, F. S. Franco, M. J. Lorenzo, R. M. Tolón, J. I. Lara and L. Cacicedo (Spain) 261

Galanin inhibits pancreatic amylase secretion in the pentobarbital-anesthetized rat
R. V. Yagci, N. Alptekin, S. Zacharia, D. H. Coy, A. Ertan and W. J. Rossowski (U.S.A.) 275

Announcements 283

Author index 285

Key word index 287